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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,871	11/12/2003	Nicholas Stamos	3602.1000-002	6738
21005 7590 07/07/2009 HAMILTON, BROOK, SMITH & REYNOLDS, P.C. 530 VIRGINIA ROAD			EXAMINER	
			MURDOUGH, JOSHUA A	
P.O. BOX 9133 CONCORD, MA 01742-9133		ART UNIT	PAPER NUMBER	
			3621	
			MAIL DATE	DELIVERY MODE
			07/07/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/706,871	STAMOS ET AL.				
Office Action Summary	Examiner	Art Unit				
	JOSHUA MURDOUGH	3621				
The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>13 A</u>	pril 2009					
• • • • • • • • • • • • • • • • • • • •	action is non-final.					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r					
10)⊠ The drawing(s) filed on <u>13 April 2009</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	• , ,	, ,				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination ("RCE") under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 13 April 2009 has been entered.

Acknowledgements

- 2. This action is responsive to Applicants' above noted RCE and associated amendments received 13 April 2009.
- 3. This action has been assigned paper number 20090705 for reference purposes only.
- 4. Claims 1-22 are pending and have been examined.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 1-22 are rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 7. Claims 1 and 12 are rejected as being indefinite because the relationship between the parts cannot be understood by one of ordinary skill in the art. Claim 1 recites, "defining a point-

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of-use security perimeter" and "use of the digital asset outside of the security perimeter." If the security perimeter is based on the point-of-use, how can the digital asset be used outside of the perimeter? As presently presented, the client device appears to be both within and outside of the security perimeter. Similar limitations are present in claim 12. Claim 12 is rejected under the same basis.

8. The Examiner finds that because particular claims are rejected as being indefinite under 35 U.S.C. §112 2nd paragraph, it is impossible to properly construe claim scope at this time. However, in accordance with MPEP §2173.06 and the USPTO's policy of trying to advance prosecution by providing art rejections even though these claim are indefinite, the claims are construed and the art is applied as much as practically possible.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 10. Claims 1-5, 7, 8, 10-13, 15, 16, 18, 19, 21, and 22, as understood by the Examiner, are rejected under 35 U.S.C. §102(e) as being anticipated by Carter et al. (US 2003/0051026) ("Carter").

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11. As to claim 1, Carter shows:

An agent process for controlling access to digital assets in a network of data processing devices, the process comprising:

defining a point-of-use security perimeter 114 that includes the operating system kernels of two or more data processing devices (protected servers, each server has an operating system and each operating system has a kernel inherently, Figure 1); defining one or more policy violation predicates (Paragraphs 0775-0783) that serve to implement policy logic and that are asserted at the point-of-use of a digital asset upon an occurrence of a possible risk of use, outside of the security perimeter of a digital asset by an end user (Paragraphs 0787-0791 and tables included within); sensing atomic events (listed after paragraph 0787) within an operating system kernel of a user client device ("workstation," Figure 1) (Paragraph 0810), the atomic events being low level kernel events and being sensed upon activities related to authorized access (Paragraph 0811) (through switch controlled by the Network Surveillance and Security System, "NSSS" 18) to a digital asset (located on a protected server within group 114) by the end user of the user client device; aggregating multiple atomic level events to determine a combined event (Paragraph 0435); and

asserting a policy violation predicate upon an occurrence of a combined event that violates a predefined digital asset usage policy that indicates a risk of use of the digital asset outside (inherent because the workstation is outside of the secure switch) of the security perimeter (Paragraph 0435).

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12. As to claim 12, Carter shows:

A system for controlling access to digital assets in a network of data processing devices, the system comprising:

- a digital asset usage policy server **18** storing one or more digital asset usage policies

 (Paragraphs 0787-0791 and tables included within) programmed to be applied to a

 point-of-use security perimeter **114**, the security perimeter comprising the

 operating system kernels of two or more data processing devices (protected

 servers, each server has an operating system and each operating system has a

 kernel inherently, Figure 1);
- an atomic event sensor (things sensed are listed after paragraph 0787, therefore there is inherently a sensor), the sensor located within an operating system kernel (Paragraph 0810) within an end user client device ("workstation," Figure 1) and programmed to sense atomic events from within the operating system kernel (Paragraph 0810), the atomic events being low level kernel events and being sensed by the sensor upon actions relating to of authorized access (Paragraph 0811) (through switch controlled by the Network Surveillance and Security System, "NSSS" 18) to one or more digital assets by an end user of the end user client device;
- an atomic level event aggregator (Paragraph 0435) programmed to determine the occurrence of an aggregate event that comprises more than one atomic level asset access event (Id.); and

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a policy violation detector programmed to determine whether an aggregate event has occurred that violates a predefined digital asset usage policy (Paragraph 0435) that indicates a risk of use of a digital asset outside the security perimeter (Paragraph 0224).

13. As to claims 2 and 13, Carter further shows:

the step of asserting the policy violation predicate is implemented in the operating system kernel of the client user device (Paragraphs 0810-0817).

14. As to claim 3, Carter further shows:

preventing a user from accessing the digital asset if the policy predicate indicates a violated policy (Paragraph 1040).

15. As to claims 4 and 15, Carter further shows:

the preventing step includes an IRP intercept (Paragraph 0147, interrupt handler within the kernel).

16. As to claims 5 and 16, Carter further shows:

the combined event is a time sequence of multiple atomic level events (Paragraph 0224).

17. As to claims 7 and 18, Carter further shows:

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asserting multiple policy violation predicates (Paragraph 0435) prior to indicating a risk of use of the digital asset outside of the security perimeter (Paragraph 0224).

18. As to claims 8 and 19, Carter further shows:

operates independently of application software (It is within the kernel, which is part of the Operating System, not the application software).

19. As to claims 10 and 21, Carter further shows:

the sensors, aggregators, and asserting steps operate in real time (Abstract, real time updating of the knowledge base requires that the sensors, aggregators, and asserting of predicates also operate in real time).

20. As to claims 11 and 22, Carter further shows:

determining the identity of a particular file in the asset access event (Paragraph 0162, In order to access the remote file through the local file, the system needs to determine the identity of the remote file.).

21. As to claim 14, Carter further shows

the policy violation detector is programmed to determine a violated policy type (Shown as classes of violations in the table following paragraph 0787).

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Claim Rejections - 35 USC § 103

- 22. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 23. Claim 9, as understood by the Examiner, is rejected under 35 U.S.C. §103(a) as being unpatentable over Carter in view of Danieli (US 6,510,513).
- As to claim 9, Carter shows all of the elements of claim 1, but does not directly show the notification of the user that they have violated a policy. Danieli teaches "alerting a user of the client computer of the inappropriate use" (see claim 14). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Carter by adding the teachings of Danieli to make it known to the user that there was a violation, because the notification allows the user to know they have done something the system believes they should not, enabling them to justify their actions to a responsible party and possibly get the policy changed, if their actions were justified.
- 25. Claims 6, 17, and 20, as understood by the Examiner, are rejected under 35 U.S.C. §103(a) as being unpatentable over Carter in view of Admitted Prior Art.
- 26. As to claims 6, 17, and 20, Carter shows all of the elements except for the ability of the user to document their reason for the policy violation. It is considered admitted prior art that documenting the reason for an access is old and well known I the art. It therefore would have

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been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Carter to incorporate this functionality. The ability to document the reason at the time of the occurrence would provide for a record of what was done and why, saving the effort of finding the appropriate person to notify.

- 27. Claims 1-5, 7, 8, 10-13, 15, 16, 18, 19, 21, and 22, as understood by the Examiner, are *alternatively* rejected under 35 USC 103(a) by Carter in view of Danieli.
- 28. As to claims 1 and 12, the Examiner primary position that it is inherent in Carter that the digital asset is used outside of the perimeter because the workstation using the asset is outside of the secure switch (Figure 1). However if not inherent, it is the Examiner's alternate position that Danieli clearly shows the process of securing a digital asset outside of the perimeter (Figure 6). Therefore, if not inherent, it would have been obvious to one of ordinary skill in the art at the time of the invention to have modified the teachings of Carter to include the external security method of Danieli in order to extend the range of control over the digital assets past the security perimeter.
- 29. As to claims 2 and 13, Carter further shows:

 the step of asserting the policy violation predicate is implemented in an operating system kernel of the client user device (element 1018, figure 10).
- 30. As to claim 3, Carter further shows:

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preventing a user from accessing the digital asset if the policy predicate indicates a violated policy (Paragraph 1040).

31. As to claims 4 and 15, Carter further shows:

the preventing step includes an IRP intercept (Paragraph 0147, interrupt handler within the kernel).

32. As to claims 5 and 16, Carter further shows:

the combined event is a time sequence of multiple atomic level events (Paragraph 0224).

33. As to claims 7 and 18, Carter further shows:

asserting multiple policy violation predicates (Paragraph 0435) prior to indicating a risk of use of the digital asset outside of the security perimeter (Paragraph 0224).

34. As to claims 8 and 19, Carter further shows:

operates independently of application software (It is within the kernel, which is part of the Operating System, not the application software).

35. As to claims 10 and 21, Carter further shows:

the sensors, aggregators, and asserting steps operate in real time (Abstract, real time updating of the knowledge base requires that the sensors, aggregators, and asserting of predicates also operate in real time).

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36. As to claims 11 and 22, Carter further shows:

determining the identity of a particular file in the asset access event (Paragraph 0162, In order to access the remote file through the local file, the system needs to determine the identity of the remote file.).

37. As to claim 14, Carter further shows

the policy violation detector determines a violated policy type (Shown as classes of violations in the table following paragraph 0787).

Response to Arguments

- 38. Applicant's arguments filed 13 April 2009 have been fully considered but they are not persuasive.
- 39. As noted above, Applicants' current amendments have caused the claims to be indefinite. While particular arguments have been provided by Applicants, the indefinite nature of the claims prevents the proper evaluation of how the arguments pertain to the claims. However, the Examiner's position is that, if the issues associated with the rejections under 35 U.S.C. 112 2nd paragraph are traversed, it is likely that the art rejections will also be traversed, with the potential for allowance of the claims.

Conclusion

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40. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSHUA MURDOUGH whose telephone number is (571)270-3270. The Examiner can normally be reached on Monday - Thursday, 7:00 a.m. - 5:00 p.m. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Andrew Fischer can be reached on (571) 272-6779. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joshua Murdough Examiner, Art Unit 3621

/ANDREW J. FISCHER/ Supervisory Patent Examiner, Art Unit 3621